



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : David L. WHITMORE et al.

Group Art Unit: 3621

Appln. No. : 09/652,009

Examiner: S. CANGIALOSI

Filed : August 31, 2000

For : METHOD AND APPARATUS FOR ROUTING DATA OVER
MULTIPLE WIRELESS NETWORKS

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
U.S. Patent and Trademark Office
Customer Service Window, Mail Stop AMENDMENT
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98 and supplemental to the Information Disclosure Statements that were previously filed on December 6, 2000, October 19, 2001, March 18, 2002, April 29, 2002, July 2, 2003, August 26, 2003, September 26, 2003, and November 21, 2003, Applicants hereby call to the Examiner's attention the following documents:

ACAMPORA, A.S. et al., "An Architecture and Methodology for Mobile-Executed Handoff in Cellular ATM Networks", IEEE Journal on Selected Areas in Communications, Vol. 12, No. 8, October 1994, pp. 1365-1375;

AMIR, E. et al., "An Application Level Video Gateway", Proceedings ACM Multimedia 1995, 1995, 11 pages;

AMIR, E. et al., "An Application Level Video Gateway", ACM Multimedia 95 - Electronic Proceedings, San Francisco, CA, November 5-9, 1995, pp. 1-18;

AMIR, E. et al., "Efficient TCP over Networks with Wireless Links", Proc. Fifth IEEE Workshop on Hot Topics in Operating Systems, May 1995, 6 pages;

BALAKRISHNAN, B. et al., "Improving TCP/IP Performance over Wireless Networks", Mobicom '95, Berkeley, CA, 1995, pp. 2-11;

BALAKRISHNAN, H. et al., "A Comparison of Mechanisms for Improving TCP Performance over Wireless Links", Proc. ACM SIGCOMM 1996, Stanford, CA, August 1996, pp. 1-14;

BALAKRISHNAN, H. et al., "A Comparison of Mechanisms for Improving TCP Performance over Wireless Links", IEEE/ACM Transactions on Networking, December 1997, pp. 1-25;

BALAKRISHNAN, H. et al., "Analyzing Stability in Wide-Area Network Performance", Proc. ACM SIGMETRICS Conference on Measurement and Modeling of Computer Systems, June 1997, 11 pages;

BALAKRISHNAN, H. et al., "Improving Reliable Transport and Handoff Performance in Cellular Wireless Networks", ACM Wireless Networks, Vol. 1, No. 4, December 1995, 19 pages;

BALAKRISHNAN, H. et al., "Improving TCP/IP Performance over Wireless Networks", Proceedings of the 1st ACM International Conference on Mobile Computing and Networking (Mobicom), November 1995, 10 pages;

BALAKRISHNAN, H. et al., "TCP Behavior of a Busy Internet Server: Analysis and Improvements", Technical Report, University of California at Berkeley, 1997, 11 pages;

BALAKRISHNAN, H. et al., "TCP Improvements for Heterogeneous Networks: The Daedalus Approach", Proceedings of the 35th Annual Allerton Conference on Communication, Control, and Computing, 1997, 10 pages;

BALAKRISHNAN, H. et al., "The Effects of Asymmetry on TCP Performance", Proc. 3rd ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom), Budapest, Hungary, September 1997, 13 pages;

BALAKRISHNAN, H., "Challenges to Reliable Data Transport over Heterogeneous Wireless Networks", PhD Dissertation, University of California at Berkeley, 1998, 17 pages;

BREWER, E.A. et al., "A Network Architecture for Heterogeneous Mobile Computing", IEEE Personal Communications Magazine, October 1998, 24 pages;

CACERES, R. et al., "Fast and Scalable Handoffs for Wireless Internetworks", International Conference on Mobile Computing and Networking, Proceedings of the 2nd Annual International Conference on Mobile Computing and Networking, 1996, 11 pages;

CHAWATHE, Y. et al., "System Support for Scalable and Fault Tolerant Internet Services", IFIP International Conference on Distributed Systems

Platforms and Open Distributed Processing (Middleware '98), Lake District, UK, September 1998, 18 pages;

DASILVA, J.S. et al., "Addressing the Needs of the European Community - The European Research Program for Advanced Mobile Systems", IEEE Personal Communications, February 1995, pp. 14-19;

FERRARI, D., "Client Requirements for Real-Time Communication Services", IEEE Communications Magazine, November 1990, pp. 65-72;

FLOYD, S. et al., "Link-Sharing and Resource Management Models for Packet Networks", IEEE/ACM Transactions on Networking, Vol. 3, No. 4, August 1995, pp. 365-386;

FOX, A. et al., "Adapting to Network and Client Variability via On-Demand Dynamic Distillation", Proceedings of ASPLOS-VII, October 1996, pp. 1-11;

FOX, A. et al., "Adapting to Network and Client Variation Using Infrastructural Proxies: Lessons and Perspectives", 15 pages;

FOX, A. et al., "Cluster-Based Scalable Network Services", Proceedings of SOSP '97, October 1997, 14 pages;

FOX, A. et al., "Experience with Top Gun Wingman: A Proxy-Based Graphical Web Browser for the 3Com PalmPilot", IFIP International Conference on Distributed Systems Platforms and Open Distributed Processing (Middleware '98), Lake District, UK, September 15--18 1998, 18 pages;

FOX, A. et al., "Orthogonal Extensions to the WWW User Interface Using Client-Side Technologies", User Interface Software and Technology (UIST) 97, Bann, Canada, October 1997, 1 page;

FOX, A. et al., "Reducing WWW Latency and Bandwidth Requirements by Real-Time Distillation", Fifth International World Wide Web Conference, Paris, France, May 1996, 9 pages;

FOX, A. et al., "Reducing WWW Latency and Bandwidth Requirements by Real-Time Distillation", Computer Networks and ISDN Systems, Volume 28, No. 711, May 1996, 12 pages;

FOX, A. et al., "Security on the Move: Indirect Authentication Using Kerberos", Proc. Second International Conference on Wireless Networking and Mobile Computing (MoboCom '96), Rye, NY, November 1996, pp. 1-10;

GloMop and Daedalus Groups, "GloMop QoS Preferences and Chunk Scheduling", January 14, 1996, 5 pages;

GloMop and Daedalus Groups, "GloMop Session-layer Preferences and Chunk Scheduling", January 14, 1996, 4 pages;

GloMop Group, "GloMop Client API v1.0", January 14, 1996, 7 pages;

GloMop Group, "GloMop Client API v1.0", January 14, 1996, 7 pages;

Applicants note that these two documents are not identical, despite having the same title;

GloMop Group, "The GloMop Client-Side Architecture", January 14, 1996, pp. 1-6;

HENDERSON, T.R. et al., "On Improving the Fairness of TCP Congestion Avoidance", IEEE Infocom '98, 6 pages;

HENDERSON, T.R. et al., "Satellite Transport Protocol (STP): An SSCOP-based Transport Protocol for Datagram Satellite Networks", Proceedings of 2nd Workshop on Satellite-Based Information Systems (WOSBIS '97), 1997, 12 pages;

HODES, T.D. et al., "Composable Ad hoc Location-based Services for Heterogeneous Mobile Clients", ACM Wireless Networks, Special issue on Mobile Computing, May 5, 1998, 16 pages;

HODES, T.D. et al., "Composable Ad-hoc Mobile Services for Universal Interaction", Proceedings of the Third ACM/IEEE International Conference on Mobile Computing, Budapest, Hungary, August 1997, 12 pages;

IOANNIDIS, J. et al., "IP-Based Protocols for Mobile Internetworking", Proc. Of ACM SIGCOMM '91, 1991, pp. 235-245;

JUBIN, J. et al., "The DARPA Packet Radio Network Protocols", Proceedings of the IEEE, Vol. 75, No. 1, January 1987, pp. 21-32;

KAHN, J.M. et al., "A Medium with Advantages over Radio . . . and Some Drawbacks - Non-Directed Infrared Links for High-Capacity Wireless LANs", IEEE Personal Communications, Second Quarter 1994, pp. 12-25;

KAHN, R.E. et al., "Advances in Packet Radio Technology", Proceedings of the IEEE, Vol. 66, No. 11, November 1978, pp. 1468-1496;

KAHN, R.E., "The Organization of Computer Resources into a Packet Radio Network", IEEE Transactions on Communications, Vol. COM-25, No. 1, January 1977, pp. 169-178;

KATZ, R.H. et al., "The Bay Area Research Wireless Access Network (BARWAN)", Proc. of the Spring COMPCON Conference, 1996, 6 pages;

KEETON, K. et al., "Providing Connection-Oriented Network Services to Mobile Hosts", Proceedings of the USENIX Symposium on Mobile and Location-Independent Computing, Cambridge, MA, August 1993, pp. 1-20;

LE, M.T. et al., "Software Architecture of the Infopad System", Proceedings of the Mobidata Workshop on Mobile and Wireless Information Systems, Rutgers, New Jersey, November 1994, pp. 1-11;

LEINER, B.M. et al., "Issues in Packet Radio Network Design", Proceedings of the IEEE, Vol. 75, No. 1, January 1987, pp. 6-20;

MAH, B.A. et al., "Providing Network Video Service to Mobile Clients", Proceedings of the Fourth Workshop on Workstation Operating Systems, IEEE, October 1993, 7 pages;

MITOLA, J., "The Software Radio Architecture", IEEE Communications Magazine, May 1995, pp. 26-38;

MYLES, A. et al., "Comparing Four IP Based Mobile Host Protocols", Computer Networks and ISDN Systems, Vol. 26, 1993, pp. 349-355;

NGUYEN, G.T. et al., "A Trace-Based Approach for Modeling Wireless Channel Behavior", Proc. Winter Simulation Conference, Dec 1996, 9 pages;

NOBLE, B.D. et al., "Trace-Based Mobile Network Emulation", Proceedings of ACM SIGCOMM 1997, Cannes, France, September 1997, 11 pages;

PADMANABHAN, V.N. et al., "Improving HTTP Latency", Computer Networks and ISDN Systems, Vol. 28, No. 1, December 1995, 13 pages;

PADMANABHAN, V.N. et al., "Networking Using Direct Broadcast Satellite", Proc. Workshop on Satellite-Based Information Systems, November 1996, 11 pages;

PADMANABHAN, V.N. et al., "TCP Fast Start: A Technique for Speeding Up Web Transfers", In Proc. IEEE Globecom 1998 Internet Mini-Conference, Sydney, Australia, November 1998, 6 pages;

PADMANABHAN, V.N. et al., "Using Predictive Prefetching to Improve World Wide Web Latency", ACM SIGCOMM Computer Communication Review, July 1996, 15 pages;

PAHLAVAN, K. et al., "Wireless Data Communications", Proceedings of the IEEE, Vol. 82, No. 9, September 1994, pp. 1398-1430;

PERKINS, C., "Providing Continuous Network Access to Mobile Hosts Using TCP/IP", Computer Networks and ISDN Systems, Vol. 26, 1993, pp. 357-369;

SESHAN, S. et al., "Handoffs in Cellular Wireless Networks: The Daedalus Implementation and Experience", Kluwer International Journal on Wireless Personal Communication Systems, 1996, 1 page;

SESHAN, S. et al., "SPAND: Shared Passive Network Performance Discovery", Proceedings of the USENIX Symposium on Internet Technologies and Systems, 1997, 13 pages;

STEMM, M. et al., "Measuring and Reducing Energy Consumption of Network Interfaces in Hand-Held Devices", Institute of Electronics, Information, and Communication Engineers Transactions on Communications, E80B (8), August 1997, pp. 1-7;

STEMM, M. et al., "Reducing Power Consumption of Network Interfaces in Hand-Held Devices (Extended Abstract)", Proc. Of the Third Workshop on Mobile Multimedia Communications (MoMuC-3), September 1996, pp. 1-6;

U.S. Patent No. 4,837,800;

U.S. Patent No. 5,173,933;

U.S. Patent No. 5,790,554;

U.S. Patent No. 5,943,333;

U.S. Patent No. 6,032,042;

U.S. Patent No. 6,198,920;

U.S. Patent No. 6,826,405;

Request for Comments (RFC 1812), "Requirements for IP Version 4 Routers", June 1995;

BRADEN, R. et al., Request for Comments (RFC 1009), "Requirements for Internet Gateways", June 1987;

A copy of the pleading filed in Civil Action No. 03-983 (SLR) in the U.S. District Court for the District of Delaware, entitled "DEFENDANT NETMOTION WIRELESS, INC.'S SECOND SUPPLEMENTAL RESPONSE TO PLAINTIFF'S SECOND SET OF INTERROGATORIES (NO. 16), in which the following documents were cited and discussed:

U.S. Patent No. 6,137,802;

U.S. Patent No. 5,305,317;

U.S. Patent No. 6,122,514;

U.S. Patent No. 5,159,912;

BAKER, M.G. et al., "Supporting Mobility in MosquitoNet", Proceedings of the 1996 USENIX Technical Conference, San Diego, CA, January 1996;

KATZ, R.H. et al., "The Case for Wireless Overlay Networks", Proc. of the SPIE Multimedia and Networking Conference (MMNC '96), San Jose, CA, January 1996, 12 pages;

WRQ, "TCP Connection Stacks up as #1 in *InfoWorld* Comparison", WRQ Quarterly, Number 30, Quarter 4, 1994, p. 1;

WRQ, "McCaw Chooses WRQ's TCP Connection: Calls Reflection 'Well-Suited for Cellular'";

WRQ, "How WRQ's TCP Connection Reduces Costs and Improves Reliability in Mobile/Wireless Computing", 1995, 4 pages;

WRQ, "TCP/IP for CDPD";

WRQ, "WRQ's Reflection Network Series Supports New Wireless Mobile Computing; McCaw Dubs WRQ's TCP Well-suited for Cellular", WRQ Reflection, October 1994, 2 pages;

WRQ, "Questions and Answers on TCP/IP for CDPD Wireless Communications", 1994, 2 pages;

WRQ, "Advantages of WRQ's TCP", WRQ Presentation, August 1994, 7 pages;

Request for Comment (RFC) 1122, "Requirements for Internet Hosts - Communications Layers", IETF 1989;

ALMQUIST, T.P. et al., Request for Comment (RFC) 1716, "Towards Requirements for IP Routers", 1994;

PERKINS, C., Request for Comment (RFC) 2002, "IP Mobility Support", IETF, October 1996;

PERKINS, C., Request for Comment (RFC) 2003, "IP Encapsulation Within IP", IETF, October 1996;

CASTINETRA, I. et al., Request for Comment (RFC) 1992, "The Nimrod Routing Architecture", IETF August 1996;

RAMANATHAN, "Nimrod Mobility Support", IETF 1994. Applicants note that this document was cited by NetMotion in a pleading. However, a copy of the document is not readily available to the undersigned.

TAYLOR, M., Request for Comment (RFC) 1674, "A Cellular Industry View of IPng", IETF August 1994;

ALMQUIST, P., "Ruminations on the Next-Hop", March 1993;

KATZ, D., "Transmission of IP and ARP over FDDI Networks", Internet Draft, September 1992;

OHTA, M. et al., "Conventional IP over ATM", Internet Draft, March 1995;

RANCH, C., "Transmitting IP Traffic over LocalTalk Networks", Internet Draft, July 1992;

STEVENSON, H. et al., "A Method for the Transmission of IP Datagrams Over SNA Networks Using LU6.2 Conversations", Internet Draft, May 1992;

CS CDPD Working Group, "Circuit Switched Cellular Digital Packet Data Implementor Guidelines", Release 1.4, April 21, 1995;

CERF, V., Request for Comment (RFC) 829, "Packet Satellite Technology Reference Sources", 1982;

www.ka9q.net/code/ka9qnos, printed on March 3, 2005;

TUCH, B., "Development of WaveLAN, an ISM Band Wireless LAN", AT&T Technical Journal, July/August 1993, pp. 27-37;

Portable Computer and Communications Association (PCCA), "Extensions to NDIS for Wireless WANs", Version 1.1, 1996;

MAGUIRE, G.Q. Jr., "A Multiport Mobile Internet-Router", IEEE, 1994;

A copy of the pleading file in Civil Action No. 03-983 (SLR) in the U.S. District Court for the District of Delaware, entitled "DEFENDANT NETMOTION WIRELESS, INC.'S RESPONSE TO PLAINTIFF'S FIRST SET OF INTERROGATORIES", in which the following documents were cited:

U.S. Patent No. 4,991,204;

U.S. Patent No. 5,305,317;

U.S. Patent No. 5,754,552;

U.S. Patent No. 6,028,914;

U.S. Patent No. 6,137,802 (mentioned above);

U.S. Patent No. 6,546,425;

European Patent Application Publication No. EP 0 898 430;

International Patent Application Publication No. WO 98/29975;

STEMM, M. et al., "Vertical Handoffs in Wireless Overlay Networks", ACM Mobile Networking (MONET), Special Issue on Mobile Networking in the Internet, Spring 1998, 18 pages;

FASBENDER, A. et al., "Any Network, Any Terminal, Anywhere", IEEE Personal Communications, April 1999, pp. 22-30;

KATZ, R.H. et al., "The Case for Wireless Overlay Networks", Proc. Of the SPIE Multimedia and Networking Conference (MMNC '96), San Jose, CA, January 1996, 12 pages (mentioned above);

MAGUIRE, G.Q. et al., "A Multiple Mobile Internet-Router", 1994 (mentioned above);

KLEMENTS, A. et al., "MINT -- A Mobile Internet Router", Proc. IEEE VTC '93, Secaucus, NJ, U.S.A., 1993;

VALKO, A.G. et al., "Cellular IP: A New Approach to Internet Host Mobility", ACM Computer Communication Review, January 1999;

BAKER, M. et al., "Supporting Mobility in MosquitoNet", 1996 (mentioned above);

KIDSTON, D. et al., "Transparent Communication Management in Wireless Networks", The Seventh Workshop on Hot Topics in Operating Systems, March 1999, Rio Rico, Arizona;

GOLDING, L.S., "Satellite Communications Systems Move into the Twenty-First Century", Wireless Networks, Vol. 4, 1998, pp. 101-107;

JING, J. et al., "Client-Server Computing in Mobile Environments", ACM Computing Surveys, Vol. 31, No. 2, June 1999;

INOUE, J. et al., "Dynamic Network Reconfiguration Support for Mobile Computers, Proceedings of the Third Annual ACM/IEEE International Conference on Mobile Computing and Networking, 1997;

KATZ, R.H., "Adaptation and Mobility in Wireless Information Systems", IEEE Personal Communications Magazine, Vol. 1, No. 1, 1995, 19 pages;

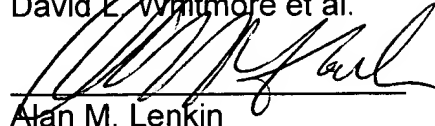
Further to 37 C.F.R. §1.98 (a)(2)(ii), copies of the U.S. patents are not enclosed. However, if any copies are needed, the Examiner is respectfully requested to contact the undersigned.

Applicants respectfully request that the Examiner consider the above material and cite the same. Copies of the above-noted articles are attached and all of the documents are listed on the attached PTO-1449 Form. The Examiner is requested to initial the appropriate spaces on the attached Form and to return a copy of the completed Form to Applicants with the next official communication in the present application.

Applicants note that this Information Disclosure Statement is being submitted together with a Request for Continued Examination and thus no fee is required to ensure consideration of this Information Disclosure Statement.

Should the Examiner have any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully submitted,
David L. Whitmore et al.

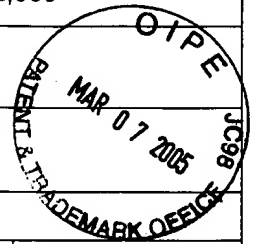


Alan M. Lenkin
Reg. No. 40,063

Arnold Turk
Reg. No. 33,094

March 4, 2005
GREENBLUM & BERNSTEIN, P.L.C.
1950 Roland Clarke Place
Reston, VA 20191
(703) 716-1191

FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P17951Application No.
09/652,009INFORMATION DISCLOSURE STATEMENT
BY APPLICANT
(Use several sheets if necessary)Applicant
David L. WHITMORE et al.Filing Date
August 31, 2000Group
3621

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

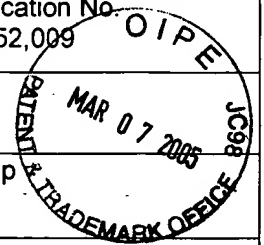
	1	ACAMPORA, A.S. et al., "An Architecture and Methodology for Mobile-Executed Handoff in Cellular ATM Networks", IEEE Journal on Selected Areas in Communications, Vol. 12, No. 8, October 1994, pp. 1365-1375.
	2	AMIR, E. et al., "An Application Level Video Gateway", Proceedings ACM Multimedia 1995, 1995, 11 pages.
	3	AMIR, E. et al., "An Application Level Video Gateway", ACM Multimedia 95 - Electronic Proceedings, San Francisco, CA, November 5-9, 1995, pp. 1-18.
	4	AMIR, E. et al., "Efficient TCP over Networks with Wireless Links", Proc. Fifth IEEE Workshop on Hot Topics in Operating Systems, May 1995, 6 pages.
	5	BALAKRISHNAN, B. et al., "Improving TCP/IP Performance over Wireless Networks", Mobicom '95, Berkeley, CA, 1995, pp. 2-11.
	6	BALAKRISHNAN, H. et al., "A Comparison of Mechanisms for Improving TCP Performance over Wireless Links", Proc. ACM SIGCOMM 1996, Stanford, CA, August 1996, pp. 1-14.
	7	BALAKRISHNAN, H. et al., "A Comparison of Mechanisms for Improving TCP Performance over Wireless Links", IEEE/ACM Transactions on Networking, December 1997, pp. 1-25.
	8	BALAKRISHNAN, H. et al., "Analyzing Stability in Wide-Area Network Performance", Proc. ACM SIGMETRICS Conference on Measurement and Modeling of Computer Systems, June 1997, 11 pages.
	9	BALAKRISHNAN, H. et al., "Improving Reliable Transport and Handoff Performance in Cellular Wireless Networks", ACM Wireless Networks, Vol. 1, No. 4, December 1995, 19 pages.
1	0	BALAKRISHNAN, H. et al., "Improving TCP/IP Performance over Wireless Networks", Proceedings of the 1 st ACM International Conference on Mobile Computing and Networking (Mobicom), November 1995, 10 pages.
1	1	BALAKRISHNAN, H. et al., "TCP Behavior of a Busy Internet Server: Analysis and Improvements", Technical Report, University of California at Berkeley, 1997, 11 pages.
1	2	BALAKRISHNAN, H. et al., "TCP Improvements for Heterogeneous Networks: The Daedalus Approach", Proceedings of the 35th Annual Allerton Conference on Communication, Control, and Computing, 1997, 10 pages.
1	3	BALAKRISHNAN, H. et al., "The Effects of Asymmetry on TCP Performance", Proc. 3 rd ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom), Budapest, Hungary, September 1997, 13 pages.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P17951Application No.
09/652,009INFORMATION DISCLOSURE STATEMENT
BY APPLICANT
(Use several sheets if necessary)Applicant
David L. WHITMORE et al.Filing Date
August 31, 2000Group
3621

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

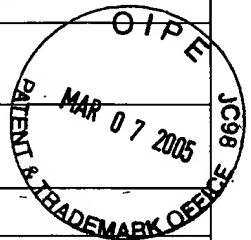
	1	4	BALAKRISHNAN, H., "Challenges to Reliable Data Transport over Heterogeneous Wireless Networks", PhD Dissertation, University of California at Berkeley, 1998, 17 pages.
	1	5	BREWER, E.A. et al., "A Network Architecture for Heterogeneous Mobile Computing", IEEE Personal Communications Magazine, October 1998, 24 pages.
	1	6	CACERES, R. et al., "Fast and Scalable Handoffs for Wireless Internetworks", International Conference on Mobile Computing and Networking, Proceedings of the 2nd Annual International Conference on Mobile Computing and Networking, 1996, 11 pages.
	1	7	CHAWATHE, Y. et al., "System Support for Scalable and Fault Tolerant Internet Services", IFIP International Conference on Distributed Systems Platforms and Open Distributed Processing (Middleware '98), Lake District, UK, September 1998, 18 pages.
	1	8	DASILVA, J.S. et al., "Addressing the Needs of the European Community - The European Research Program for Advanced Mobile Systems", IEEE Personal Communications, February 1995, pp. 14-19.
	1	9	FERRARI, D., "Client Requirements for Real-Time Communication Services", IEEE Communications Magazine, November 1990, pp. 65-72.
	2	0	FLOYD, S. et al., "Link-Sharing and Resource Management Models for Packet Networks", IEEE/ACM Transactions on Networking, Vol. 3, No. 4, August 1995, pp. 365-386.
	2	1	FOX, A. et al., "Adapting to Network and Client Variability via On-Demand Dynamic Distillation", Proceedings of ASPLOS-VII, October 1996, pp. 1-11.
	2	2	FOX, A. et al., "Adapting to Network and Client Variation Using Infrastructural Proxies: Lessons and Perspectives", 15 pages.
	2	3	FOX, A. et al., "Cluster-Based Scalable Network Services", Proceedings of SOSP '97, October 1997, 14 pages.
	2	4	FOX, A. et al., "Experience with Top Gun Wingman: A Proxy-Based Graphical Web Browser for the 3Com PalmPilot", IFIP International Conference on Distributed Systems Platforms and Open Distributed Processing (Middleware '98), Lake District, UK, September 15--18 1998, 18 pages.
	2	5	FOX, A. et al., "Orthogonal Extensions to the WWW User Interface Using Client-Side Technologies", User Interface Software and Technology (UIST) 97, Bann, Canada, October 1997, 1 page.
	2	6	FOX, A. et al., "Reducing WWW Latency and Bandwidth Requirements by Real-Time Distillation", Fifth International World Wide Web Conference, Paris, France, May 1996, 9 pages.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P17951Application No.
09/652,009INFORMATION DISCLOSURE STATEMENT
BY APPLICANT
(Use several sheets if necessary)Applicant
David L. WHITMORE et al.Filing Date
August 31, 2000Group
3621

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

2	7	FOX, A. et al., "Reducing WWW Latency and Bandwidth Requirements by Real-Time Distillation", Computer Networks and ISDN Systems, Volume 28, No. 711, May 1996, 12 pages.
2	8	FOX, A. et al., "Security on the Move: Indirect Authentication Using Kerberos", Proc. Second International Conference on Wireless Networking and Mobile Computing (MoboCom '96), Rye, NY, November 1996, pp. 1-10.
2	9	GloMop and Daedalus Groups, "GloMop QoS Preferences and Chunk Scheduling", January 14, 1996, 5 pages.
3	0	GloMop and Daedalus Groups, "GloMop Session-layer Preferences and Chunk Scheduling", January 14, 1996, 4 pages.
3	1	GloMop Group, "GloMop Client API v1.0", January 14, 1996, 7 pages.
3	2	GloMop Group, "GloMop Client API v1.0", January 14, 1996, 7 pages.
3	3	GloMop Group, "The GloMop Client-Side Architecture", January 14, 1996, pp. 1-6.
3	4	HENDERSON, T.R. et al., "On Improving the Fairness of TCP Congestion Avoidance", IEEE Infocom '98, 6 pages.
3	5	HENDERSON, T.R. et al., "Satellite Transport Protocol (STP): An SSCOP-based Transport Protocol for Datagram Satellite Networks", Proceedings of 2nd Workshop on Satellite-Based Information Systems (WOSBIS '97), 1997, 12 pages.
3	6	HODES, T.D. et al., "Composable Ad hoc Location-based Services for Heterogeneous Mobile Clients", ACM Wireless Networks, Special issue on Mobile Computing, May 5, 1998, 16 pages.
3	7	HODES, T.D. et al., "Composable Ad-hoc Mobile Services for Universal Interaction", Proceedings of the Third ACM/IEEE International Conference on Mobile Computing, Budapest, Hungary, August 1997, 12 pages.
3	8	IOANNIDIS, J. et al., "IP-Based Protocols for Mobile Internetworking", Proc. Of ACM SIGCOMM '91, 1991, pp. 235-245.
3	9	JUBIN, J. et al., "The DARPA Packet Radio Network Protocols", Proceedings of the IEEE, Vol. 75, No. 1, January 1987, pp. 21-32.
4	0	KAHN, J.M. et al., "A Medium with Advantages over Radio . . . and Some Drawbacks - Non-Directed Infrared Links for High-Capacity Wireless LANs", IEEE Personal Communications, Second Quarter 1994, pp. 12-25.

EXAMINER

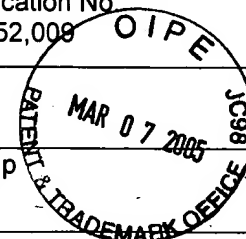
DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P17951Application No.
09/652,009INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

Applicant
David L. WHITMORE et al.Filing Date
August 31, 2000Group
3621

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
---------------------	-----------------	------	------	-------	----------	----------------------------------

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
-----------------	------	---------	-------	----------	-----------------------

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

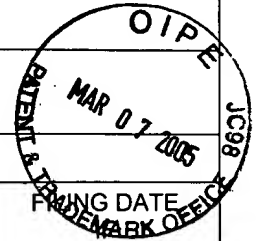
4	1	KAHN, R.E. et al., "Advances in Packet Radio Technology", Proceedings of the IEEE, Vol. 66, No. 11, November 1978, pp. 1468-1496.
4	2	KAHN, R.E., "The Organization of Computer Resources into a Packet Radio Network", IEEE Transactions on Communications, Vol. COM-25, No. 1, January 1977, pp. 169-178.
4	3	KATZ, R.H. et al., "The Bay Area Research Wireless Access Network (BARWAN)", Proc. of the Spring COMPCON Conference, 1996, 6 pages.
4	4	KEETON, K. et al., "Providing Connection-Oriented Network Services to Mobile Hosts", Proceedings of the USENIX Symposium on Mobile and Location-Independent Computing, Cambridge, MA, August 1993, pp. 1-20.
4	5	LE, M.T. et al., "Software Architecture of the Infopad System", Proceedings of the Mobidata Workshop on Mobile and Wireless Information Systems, Rutgers, New Jersey, November 1994, pp. 1-11.
4	6	LEINER, B.M. et al., "Issues in Packet Radio Network Design", Proceedings of the IEEE, Vol. 75, No. 1, January 1987, pp. 6-20.
4	7	MAH, B.A. et al., "Providing Network Video Service to Mobile Clients", Proceedings of the Fourth Workshop on Workstation Operating Systems, IEEE, October 1993, 7 pages.
4	8	MITOLA, J., "The Software Radio Architecture", IEEE Communications Magazine, May 1995, pp. 26-38.
4	9	MYLES, A. et al., Comparing Four IP Based Mobile Host Protocols", Computer Networks and ISDN Systems, Vol. 26, 1993, pp. 349-355.
5	0	NGUYEN, G.T. et al., "A Trace-Based Approach for Modeling Wireless Channel Behavior", Proc. Winter Simulation Conference, Dec 1996, 9 pages.
5	1	NOBLE, B.D. et al., "Trace-Based Mobile Network Emulation", Proceedings of ACM SIGCOMM 1997, Cannes, France, September 1997, 11 pages.
5	2	PADMANABHAN, V.N. et al., "Improving HTTP Latency", Computer Networks and ISDN Systems, Vol. 28, No. 1, December 1995, 13 pages.
5	3	PADMANABHAN, V.N. et al., "Networking Using Direct Broadcast Satellite", Proc. Workshop on Satellite-Based Information Systems, November 1996, 11 pages.
5	4	PADMANABHAN, V.N. et al., "TCP Fast Start: A Technique for Speeding Up Web Transfers", In Proc. IEEE Globecom 1998 Internet Mini-Conference, Sydney, Australia, November 1998, 6 pages.
5	5	PADMANABHAN, V.N. et al., "Using Predictive Prefetching to Improve World Wide Web Latency", ACM SIGCOMM Computer Communication Review, July 1996, 15 pages.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P17951Application No.
09/652,009INFORMATION DISCLOSURE STATEMENT
BY APPLICANT
(Use several sheets if necessary)Applicant
David L. WHITMORE et al.Filing Date
August 31, 2000Group
3621

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	APPROPRIATE
	4 8 3 7 8 0 0	01/06/89	PREEBURG et al.			
	5 1 7 3 9 3 3	12/22/92	JABS et al.			
	5 7 9 0 5 5 4	08/04/98	PITCHER et al.			
	5 9 4 3 3 3 3	08/24/99	WHINNETT et al.			
	6 0 3 2 0 4 2	02/29/00	PAUPPI			
	6 1 9 8 9 2 0	03/06/01	DOVIK et al.			
	6 8 2 6 4 0 5	11/30/04	DOVIK et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

5	6	PAHLAVAN, K. et al., "Wireless Data Communications", Proceedings of the IEEE, Vol. 82, No. 9, September 1994, pp. 1398-1430.
5	7	PERKINS, C., "Providing Continuous Network Access to Mobile Hosts Using TCP/IP", Computer Networks and ISDN Systems, Vol. 26, 1993, pp. 357-369.
5	8	SESHAN, S. et al., "Handoffs in Cellular Wireless Networks: The Daedalus Implementation and Experience", Kluwer International Journal on Wireless Personal Communication Systems, 1996, 1 page.
5	9	SESHAN, S. et al., "SPAND: Shared Passive Network Performance Discovery", Proceedings of the USENIX Symposium on Internet Technologies and Systems, 1997, 13 pages.
6	0	STEMM, M. et al., "Measuring and Reducing Energy Consumption of Network Interfaces in Hand-Held Devices", Institute of Electronics, Information, and Communication Engineers Transactions on Communications, E80B (8), August 1997, pp. 1-7.
6	1	STEMM, M. et al., "Reducing Power Consumption of Network Interfaces in Hand-Held Devices (Extended Abstract)", Proc. Of the Third Workshop on Mobile Multimedia Communications (MoMuC-3), September 1996, pp. 1-6.
6	2	Request for Comments (RFC 1812), "Requirements for IP Version 4 Routers", June 1995.
6	3	BRADEN, R. et al., Request for Comments (RFC 1009), "Requirements for Internet Gateways", June 1987.
6	4	BAKER, M.G. et al., "Supporting Mobility in MosquitoNet", Proceedings of the 1996 USENIX Technical Conference, San Diego, CA, January 1996.

EXAMINER

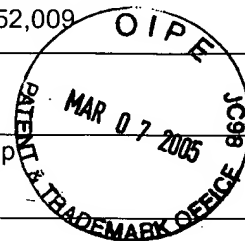
DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

Department of Commerce
Patent and Trademark OfficeAtty. Docket
P17951Application No.
09/652,009INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

Applicant
David L. WHITMORE et al.Filing Date
August 31, 2000Group
3621

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6 1 3 7 8 0 2	10/24/00	JONES et al.			
		5 3 0 5 3 1 7	04/19/94	SZCZEPANEK			
		6 1 2 2 5 1 4	09/19/00	SPAUR et al.			
		5 1 5 9 9 1 2	11/03/92	KILIN et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

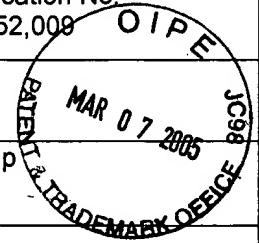
	6	5	KATZ, R.H. et al., "The Case for Wireless Overlay Networks", Proc. of the SPIE Multimedia and Networking Conference (MMNC '96), San Jose, CA, January 1996, 12 pages.
	6	6	WRQ, "TCP Connection Stacks up as #1 in InfoWorld Comparison", WRQ Quarterly, Number 30, Quarter 4, 1994, p. 1.
	6	7	WRQ, "McCaw Chooses WRQ's TCP Connection: Calls Reflection 'Well-Suited for Cellular'".
	6	8	WRQ, "How WRQ's TCP Connection Reduces Costs and Improves Reliability in Mobile/Wireless Computing", 1995, 4 pages.
	6	9	WRQ, "TCP/IP for CDPD".
	7	0	WRQ, "WRQ's Reflection Network Series Supports New Wireless Mobile Computing; McCaw Dubs WRQ's TCP Well-suited for Cellular", WRQ Reflection, October 1994, 2 pages.
	7	1	WRQ, "Questions and Answers on TCP/IP for CDPD Wireless Communications", 1994, 2 pages.
	7	2	WRQ, "Advantages of WRQ's TCP", WRQ Presentation, August 1994, 7 pages.
	7	3	Request for Comment (RFC) 1122, "Requirements for Internet Hosts - Communications Layers", IETF 1989.
	7	4	ALMQUIST, T.P. et al., Request for Comment (RFC) 1716, "Towards Requirements for IP Routers", 1994.
	7	5	PERKINS, C., Request for Comment (RFC) 2002, "IP Mobility Support", IETF, October 1996.
	7	6	PERKINS, C., Request for Comment (RFC) 2003, "IP Encapsulation Within IP", IETF, October 1996.
	7	7	CASTINETRA, I. et al., Request for Comment (RFC) 1992, "The Nimrod Routing Architecture", IETF August 1996.
	7	8	RAMANATHAN, "Nimrod Mobility Support", IETF 1994.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P17951Application No.
09/652,009INFORMATION DISCLOSURE STATEMENT
BY APPLICANT
(Use several sheets if necessary)Applicant
David L. WHITMORE et al.Filing Date
August 31, 2000Group
3621

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

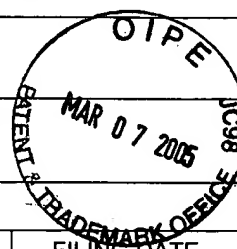
7	9	TAYLOR, M., Request for Comment (RFC) 1674, "A Cellular Industry View of IPng", IETF August 1994.
8	0	ALMQUIST, P., "Ruminations on the Next-Hop", March 1993.
8	1	KATZ, D., "Transmission of IP and ARP over FDDI Networks", Internet Draft, September 1992.
8	2	OHTA, M. et al., "Conventional IP over ATM", Internet Draft, March 1995.
8	3	RANCH, C., "Transmitting IP Traffic over LocalTalk Networks", Internet Draft, July 1992.
8	4	STEVENSON, H. et al., "A Method for the Transmission of IP Datagrams Over SNA Networks Using LU6.2 Conversations", Internet Draft, May 1992.
8	5	CS CDPD Working Group, "Circuit Switched Cellular Digital Packet Data Implementor Guidelines", Release 1.4, April 21, 1995.
8	6	CERF, V., Request for Comment (RFC) 829, "Packet Satellite Technology Reference Sources", 1982.
8	7	www.ka9q.net/code/ka9qnos, printed on March 3, 2005.
8	8	TUCH, B., "Development of WaveLAN, an ISM Band Wireless LAN", AT&T Technical Journal, July/August 1993, pp. 27-37.
8	9	Portable Computer and Communications Association (PCCA), "Extensions to NDIS for Wireless WANs", Version 1.1, 1996.
9	0	MAGUIRE, G.Q. Jr., "A Multiport Mobile Internet-Router", IEEE, 1994.
9	1	STEMM, M. et al., "Vertical Handoffs in Wireless Overlay Networks", ACM Mobile Networking (MONET), Special Issue on Mobile Networking in the Internet, Spring 1998, 18 pages.
9	2	FASBENDER, A. et al., "Any Network, Any Terminal, Anywhere", IEEE Personal Communications, April 1999, pp. 22-30.
9	3	KLEMENTS, A. et al., "MINT -- A Mobile Internet Router", Proc. IEEE VTC '93, Secaucus, NJ, U.S.A., 1993.
9	4	VALKO, A.G. et al., "Cellular IP: A New Approach to Internet Host Mobility", ACM Computer Communication Review, January 1999.
9	5	KIDSTON, D. et al., "Transparent Communication Management in Wireless Networks", The Seventh Workshop on Hot Topics in Operating Systems, March 1999, Rio Rico, Arizona.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P17951Application No.
09/652,009INFORMATION DISCLOSURE STATEMENT
BY APPLICANT
(Use several sheets if necessary)Applicant
David L. WHITMORE et al.Filing Date
August 31, 2000Group
3621

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4	9	9	1	2	0	4	05/09/91	YAMAMOTO et al.			
		5	3	0	5	3	1	7	04/19/94	SZLZEPANEK			
		5	7	5	4	5	5	2	05/19/98	ALLMONO et al.			
		6	0	2	8	9	1	4	02/22/00	LIN et al.			
		6	5	4	6	4	2	5	04/08/03	HANSON et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
		0	8	9	8	4	3	0	02/24/99	E.P.O				
	98	/		2	9	9	7	5	07/79/98	W.I.P.O				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	9	6	GOLDING, L.S., "Satellite Communications Systems Move into the Twenty-First Century", Wireless Networks, Vol. 4, 1998, pp. 101-107.											
	9	7	JING, J. et al., "Client-Server Computing in Mobile Environments", ACM Computing Surveys, Vol. 31, No. 2, June 1999.											
	9	8	INOUE, J. et al., "Dynamic Network Reconfiguration Support for Mobile Computers, Proceedings of the Third Annual ACM/IEEE International Conference on Mobile Computing and Networking, 1997.											
	9	9	KATZ, R.H., "Adaptation and Mobility in Wireless Information Systems", IEEE Personal Communications Magazine, Vol. 1, No. 1, 1995, 19 pages.											

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.